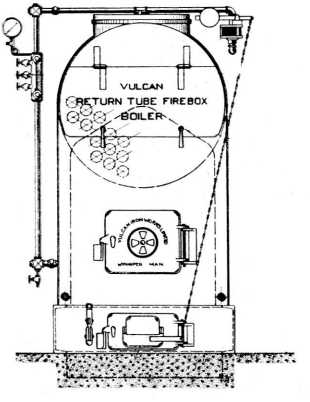
VULCAN IRON WORKS LIMITED

ESTABLISHED 1874

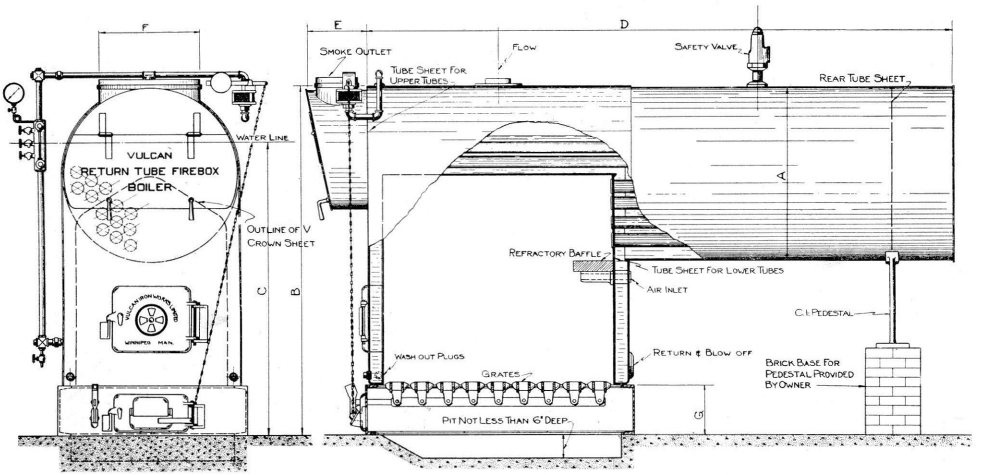
VULCAN



RETURN TUBE (Portable) FIREBOX BOILERS

WINNIPEG CANADA

VULCAN FIREBOX BOILERS



VULCAN FIREBOX BOILERS are of the Return Tube Portable type and have two distinctive features:

One: The 30° V Crown Sheet for easier cleaning and better circulation. This style of Crown Sheet also allows a symmetrical layout of tubes so that it is possible to get the same heating surface in a VULCAN boiler as those up to 6 inches larger ot other types.

Two: The Refractory Baffle Plate, under which there are inlets for preheated air, this combined with the high Firebox makes for more complete combustion, especially when Western coals are used.

VULCAN FIREBOX BOILERS have grate areas of ample size for their heating surface and while ratings are purposely conservative, we guarantee our boilers to be equal in capacity to those of any other make compared on the square feet of heating surface basis.

VULCAN FIREBOX BOILERS may be manufactured to suit our customers' special requirements as to the height of Setting, etc. The heights given in the table of sizes are the minimum recommended for economical combustion of soft coal.

VULCAN FIREBOX BOILERS are built to comply with the Canadian Inter-Provincial Regulations, and while government registered for 15 lbs. working pressure, are designed for 30 lbs., and tested to 60 lbs. pressure in our shops.

VULCAN FIREBOX BOILERS are constructed of Flange Quality plate, 55,000-65,000 lbs. per square inch tensile strength. All seams and stay-bolts are electrically welded. All Castings including Grates, are of good quality Grey Iron and of rugged construction.

VULCAN FIREBOX BOILERS are furnished with Base, Grates, Safety Valve, Water Column piped to Boiler, Pressure Gauge, Gauge Cocks, Damper, Automatic Draft Regulator, and Firing Tools.

No Mountings are supplied with Hot Water Boilers.

VULCAN RETURN TUBE FIREBOX BOILERS—TABLE OF SIZES

Size No.	Heating Surface Sq. Ft.	St'm Radiation Square Feet Gross	St'm Radiation Square Feet Net	Grate Area Sq. Ft	Ship'g Weight Lbs.	DIMENSIONS A	D	C	B	E	F	G	Flow	Return	Saf. Valve
RF 1	270	3200	2500	11.2	5800	36″	10′3″	68″	78″	1′3″	1′8″	12″	5″	3″	2½″
RF 2	300	3600	2800	11.2	6000	36″	11′3″	68″	78″	1′3″	1′8″	12″	5″	3″	2½″
RF 3	390	4600	3700	13.5	7500	42″	11′7″	72″	84″	1′3″	2′0″	12″	5″	3″	3″
RF 4	430	5200	4300	13.5	7800	42″	12′7″	72″	84″	1′3″	2′0″	12″	5″	3″	3″
RF 5	530	6300	5300	17.5	10000	48″	11′10″	77″	90″	1′5″	2′3″	12″	6″	3″	3″
RF 6	585	7000	6000	17.5	10400	48″	12′10″	77″	90″	1′5″	2′3″	12″	6″	3″	3″
RF 7	666	8000	7000	20	11500	54″	11′10″	84″	99″	1′5″	2′9″	12″	6″	3″	3½″
RF 8	738	8900	8000	20	12000	54″	12′10″	84″	99″	1′5″	2′9″	12″	6″	3″	3½″
RF 9	902	10800	9800	25	15500	60″	12′1″	88″	102″	1′8″	3′0″	15″	8″	4″	4″
RF10	1002	12000	11200	25	16300	60″	13′1″	88″	102″	1′8″	3′0″	15″	8″	4″	4″
RF11	1102	13200	12600	25	17100	60″	14′1″	88″	102″	1′8″	3′0″	15″	8″	4″	4″
RF12	1180	14200	13500	27.5	18500	66″	13′4″	91″	108″	2′0″	3′6″	15″	8″	5″	4″
RF13	1300	15600	15000	30	19500	66″	14′6″	91″	108″	2′0″	3′6″	15″	8″	5″	4″
RF14	1420	17000	16200	30	20500	66″	15′6″	91″	108″	2′0″	3′6″	15″	8″	5″	4″
RF15	1580	19000	18000	33	23000	72″	14′6″	103″	120″	2′0″	4′0″	15″	10″	6″	2 @ 3″
RF16	1735	20800	19800	33	24000	72″	15′6″	103″	120″	2′0″	4′0″	15″	10″	6″	2 @ 3″
RF17	1890	22700	21600	33	25000	72″	16′6″	103″	120″	2′0″	4′0″	15″	10″	6″	2 @ 3″
RF18	2045	24500	23300	33	26000	72″	17′6″	103″	120″	2′0″	4′0″	15″	10″	6″	2 @ 3″
RF19	2200	26400	25200	33	27000	72″	18′6″	103″	120″	2′0″	4′0″	15″	10″	6″	2 @ 3″
RF20	2355	28200	27800	33	28000	72″	19′6″	103″	120″	2′0″	4′0″	15″	10″	6″	2 @ 3″

For Hot Water Heating add 66% to Radiation. For Stoker, Gas or Oil Fired Boilers, add 20% to Radiation.
Full ratings can only be developed if Breeching and Chimney are large enough for the Boiler.